CL I/ Sustainment

Outline

- Associated doctrine
- Definition of the Sustainment Function
- Overarching functional support concept
- Service responsibilities for that function
- Organizations:
  - Strategic/National Partners
  - Strategic Level (to include Agencies & Modular forces/units)
  - Operational Level (to include Modular forces/units)
  - Tactical Level (to include Modular forces/units)
- Requirements flow
- Distribution and/or Support Concepts from Strategic level to tactical
- LPT considerations
- Planning considerations
- Contracting considerations
- Requirements calculations- e.g. Student Text 101-6
- Equipment
- Acronyms
- SMEs, POCs and web sites

DOCTRINE

- AR 30-22, The Army Food Service Program
- AR 40-25, Nutrition Allowance, Standards, and Education
- FM 4-0 (100-10), *Combat Service Support*, 29 August 2003
- DA PAM 30-22, Operating Procedures for the Food Service Program
- FM 4-01.4 (101-10-1), Army Theatre Distribution, 27 May 2008
- FM 4-90.7, Stryker Brigade Combat Team Logistics, 10 Sept 2007
- FM 4-93.4, Theatre Sustainment Command, 15 April 2003
- FM 10-1, *Quartermaster Principles*, 11 August 1994
- FM 10-23, *Basic Doctrine for Army Field Feeding and Class I Operations Management*, 18 April 1996
- Modular Force Logistics, version 6, 20 September

Definition of (CLI/Function)

- The feeding standard is three quality meals each day
- Types of Rations: Unitized Group Ration-A (UGR-A); UGR-Heat & Serve (UGR-H&S); Meal Ready to Eat (MRE); Commercial off-the- Shelf (COTS)
- The UGR must be supplemented with bread and milk - required to comply with the Surgeon General's nutrition requirement
- Use of the meal, ready to eat (MRE), as the sole ration will not exceed 21 days in accordance with the Surgeon General's policy
- Issued based on the Ration Cycle (the what) and the Issue Cycle (the when)

CONOPS Feeding Plan Timeline
(Condition Based)

Standard	Expeditionary < 6 Months					Temporary < 24 Months	
Ration Cycle	M-M-M	U-M-M	U-M-U w/one UGR (A) meal every third day	U-M-U	U-M-U	U-M-U	21 Day CONOPS Menu
Theater Ration Mix	MRE 100 %	UGR (H&S) 34%	UGR (H&S) 56%	UGR (H&S) 34%	UGR (H&S) 10%	UGR (H&S) 05%	Force Provider, LOGCAP or Direct Contract 90 % Supported by SPV Platform 10% Combination of MRE's, UGR's Condition based
		MRE 66%	MRE 33%	MRE 33%	MRE 20%	MRE 15%	
			UGR (A) 11%	UGR (A) 33%	UGR (A) + 70%	UGR (A) + 80%	
Facilities		MKT, KCLFF, CK, Tents, Refers			MKT, CK, Unit Tents, Force Provider, Refers		Force Provider LOGCAP & SPV
Deployment Days D+	1-20	21-30	31-60	61-90	91-180	181 Days to 24 Months	

Notes:
1. Ration Legend: MRE-M, UGR (H&S) or UGR (A) – U, UGR (A) with Short Order Supplemental Menus – UGR (A)+
2. Units deploying into developed areas may move directly into the temporary standard depending upon their mission and the theater logistical capabilities at that location.

Natick Soldier Research

- Manages the DOD Combat Feeding Program and is responsible for research, development, integration, and testing for operational ration Food Service equipment technology and combat feeding systems

- Responsible for implementing all Field Feeding Foods

Army Material Command(AMC)

- Develops and maintains specifications for subsistence items
- Determines the Army mobilization and contingency stocks
- Develops contract support through the Logistic Civil Augmentation Program(LOGCAP)

DSC-Philadelphia Subsi[illegible]Branch

DFAC Support and Contracting

Fresh Fruits and Vegetables

Supplier Issues/ Informatio n

MRE's/UGR-A's/UGR H&S

US Army Vet CMD/ FDA/ QMC&S-ACES /RDECOM

Bottled Water/ Host Nation Support Contracts

DLA - Defense Supply Center Philadelphia

The Director of DLA has been designated by the Deputy Secretary of Defense as the

DoD Executive Agent (EA) for Subsistence

Troop Support Lead Center

Customers

Major Commands

Maintenance Activities

International Customers

CLOTHING & TEXTILES

- Combat uniforms/tents
- Body armor/field equipment
- Individual chem/bio protective suit
- All Service uniforms

SUBSISTENCE

-Operational Rations (incl. Meal, Ready-to-Eat and Unitized Group Rations)

- Food Service & Field Feeding Equipment

- Dining Facility Support

MEDICAL

- Diagnostic Imaging Equip
- MRI Equipment
- Surgical & Dental Supplies
- Pharmaceuticals
- Optical Products
- Laboratory Items

CONSTRUCTION & EQUIPMENT

-Facilities Maintenance

- Equipment (HEPP, Diving, Safety & Rescue, MHE)

-Fire & Emergency Services

-Wood Products

- Metals
- Barrier Material

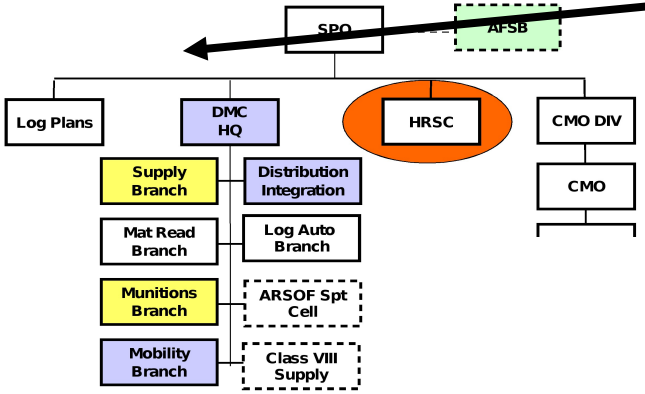
Suppliers

OEM

Competitive Sources

TSC and ESC SPO

TSC

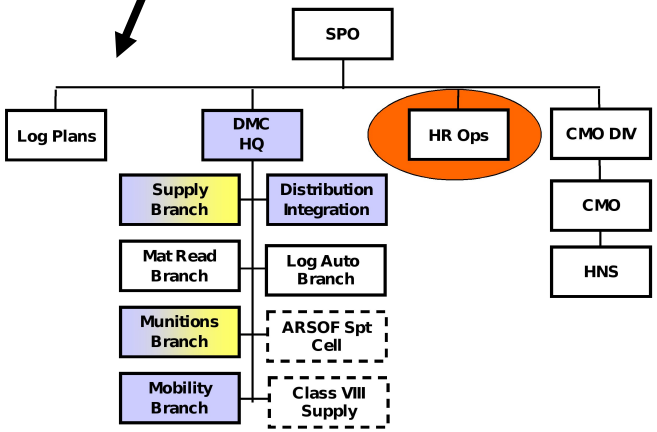


Where Materiel Management Occurs

Where Distribution Management Occurs

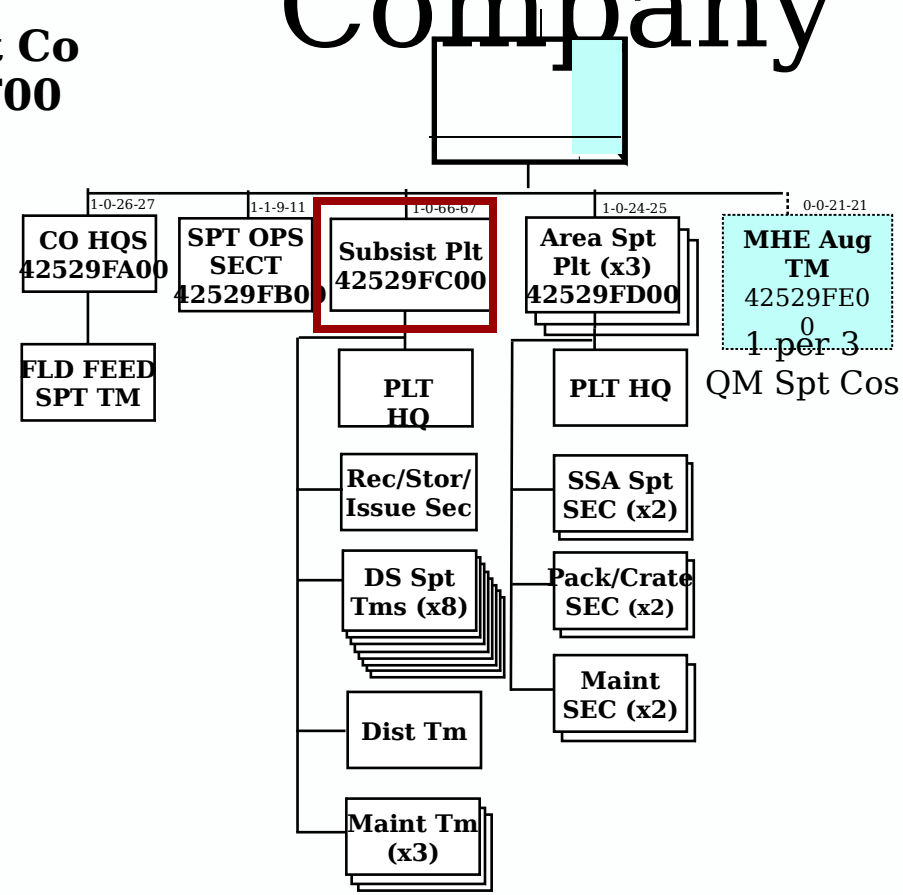
CL I and Water

ESC



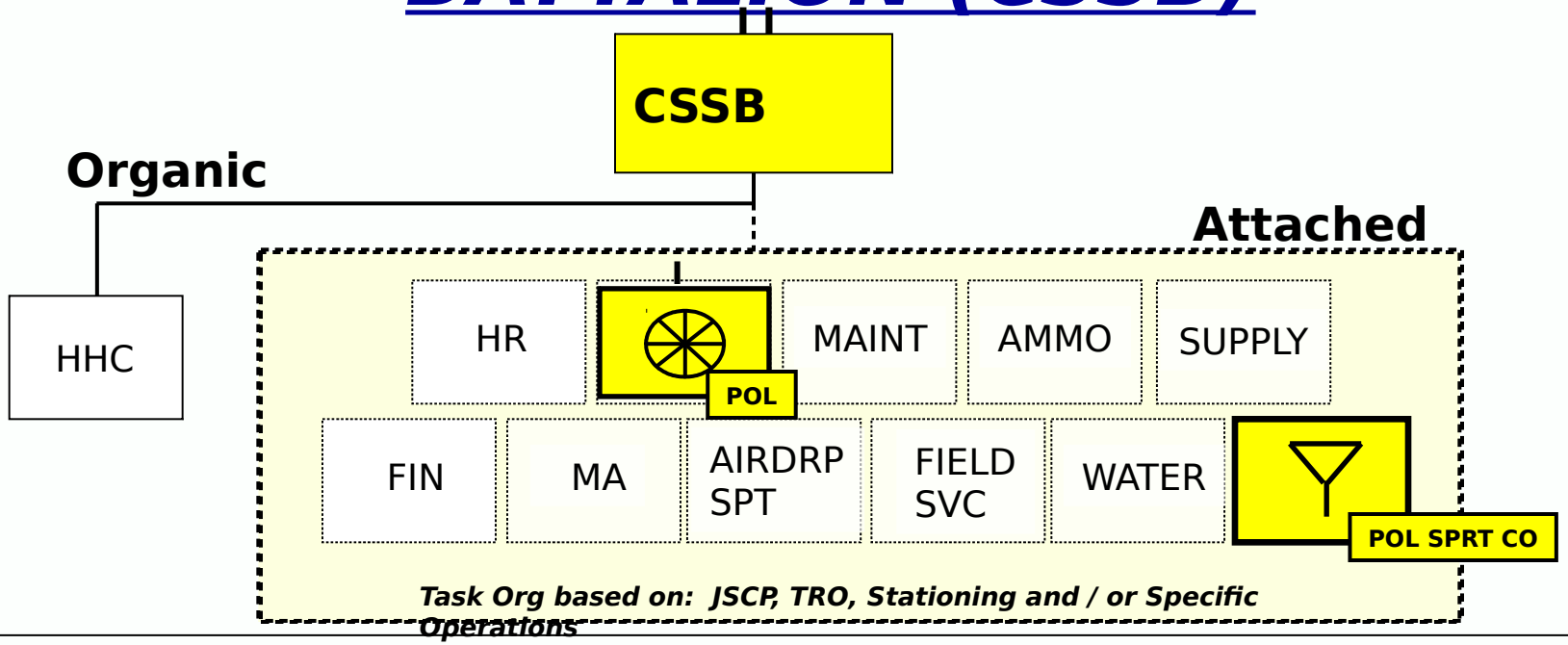
Quartermaster Support Company

QM Spt Co
42420F00



One or more of these can be found in the CSSB of the Sustainment BDE

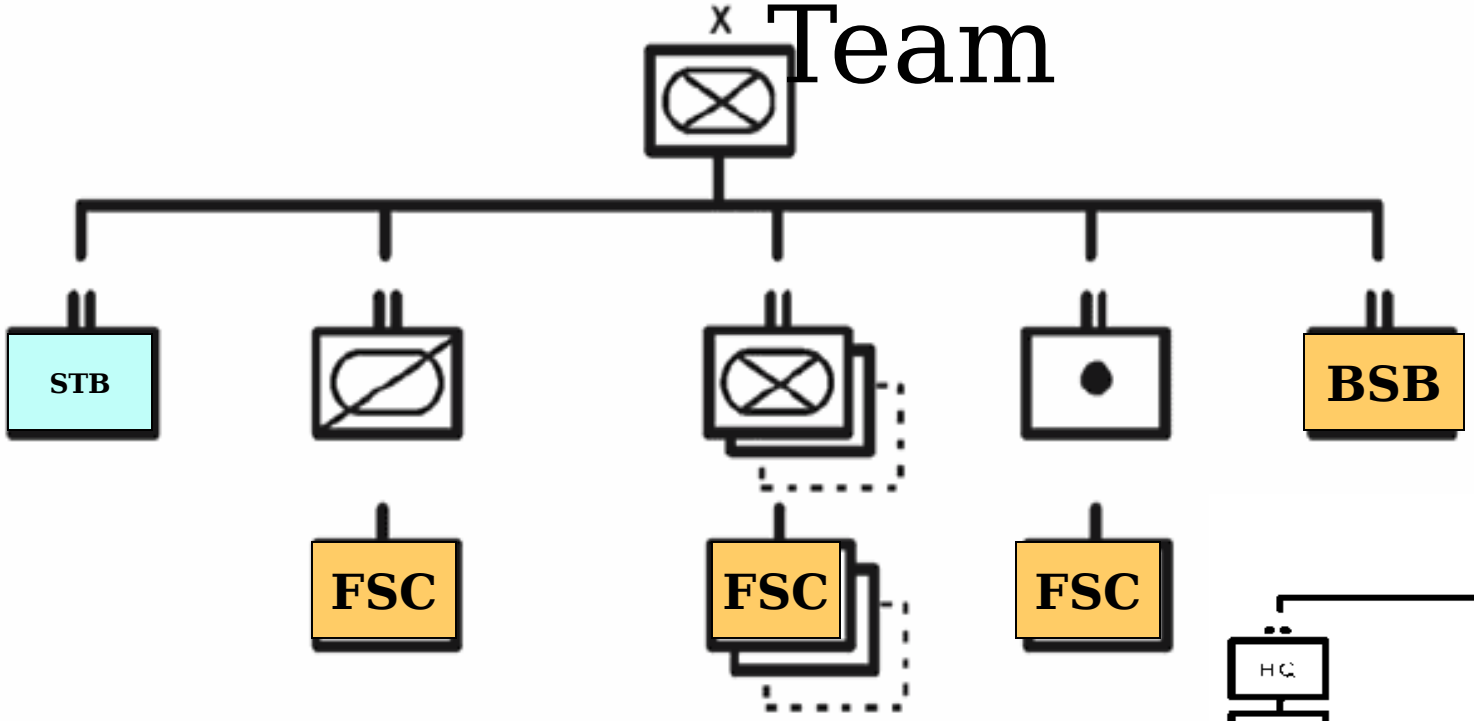
COMBAT SUSTAINMENT SUPPORT BATTALION (CSSB)

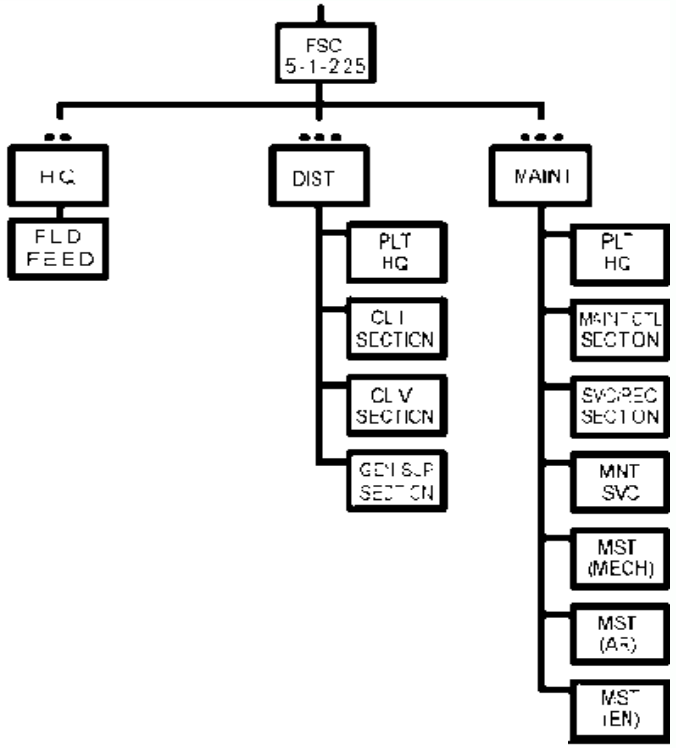


MISSION:

- **Assigned to a Sustainment Brigade; receive & employ modular logistics units in support of its mission.**
- **Provide C2 & admin. support for all organic and attached units.**
- **Plan, coordinate, synchronize, monitor and control logistics operations within assigned AO.**
- **Provide common user logistics (e.g. Class I, III, V, inland transportation, etc.) within the limits of its capabilities, for joint or multinational forces as directed.**

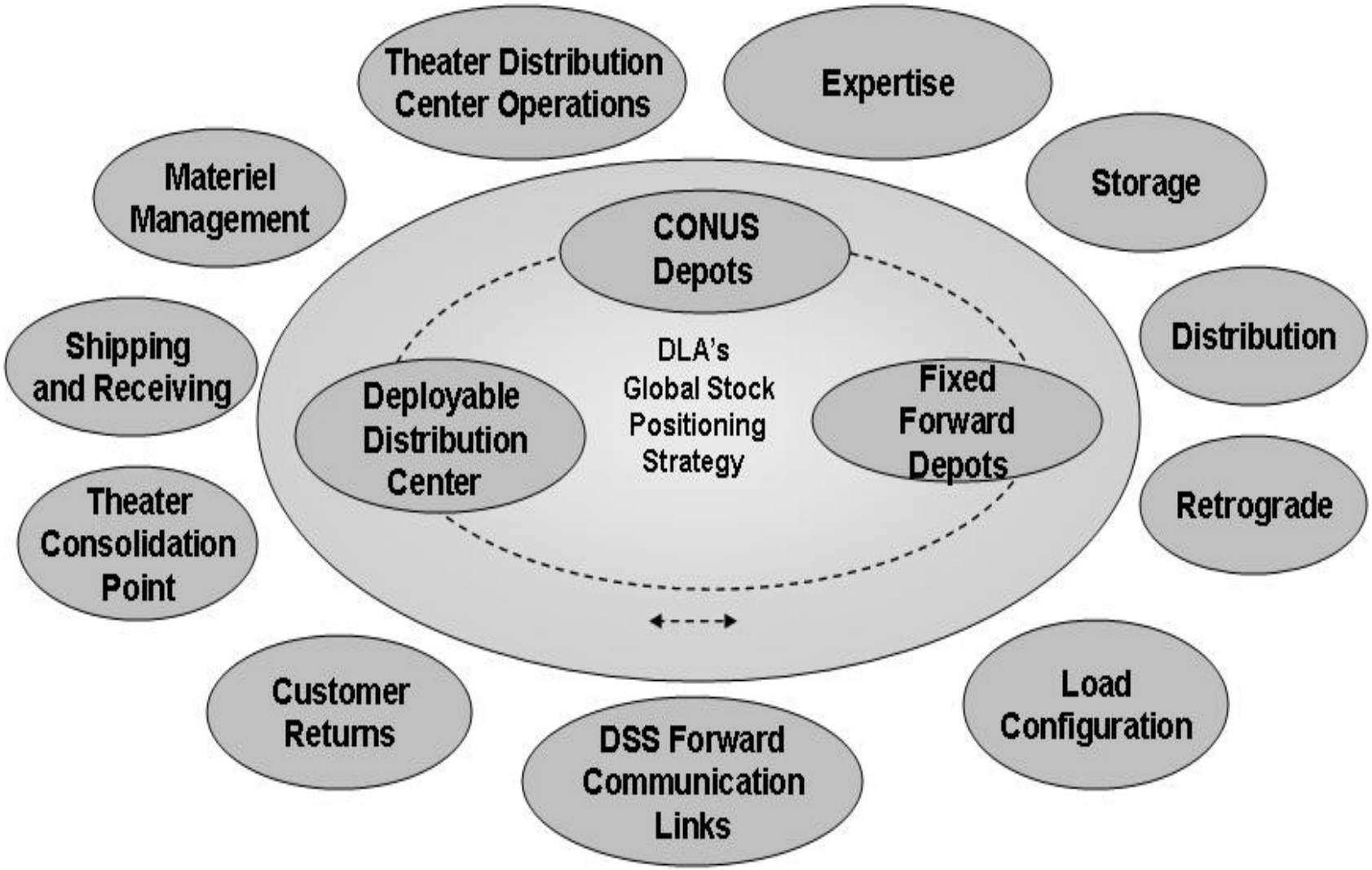
Heavy Brigade Combat Team



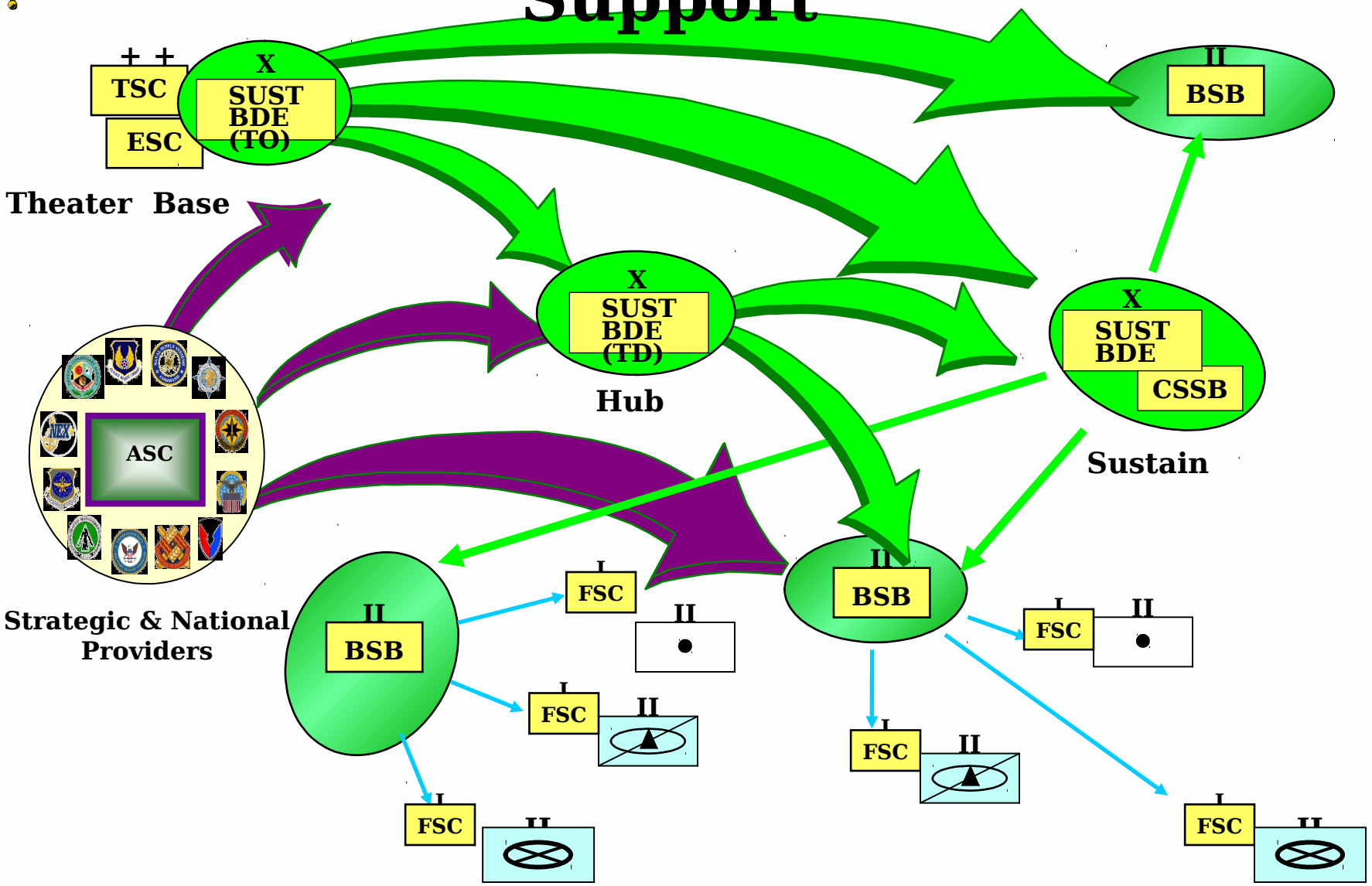


FSCs are organic to the BSB and OPCON to supported battalion. They may be habitually attached to the CAB, fires battalion, and the reconnaissance squadron.

Distribution Process

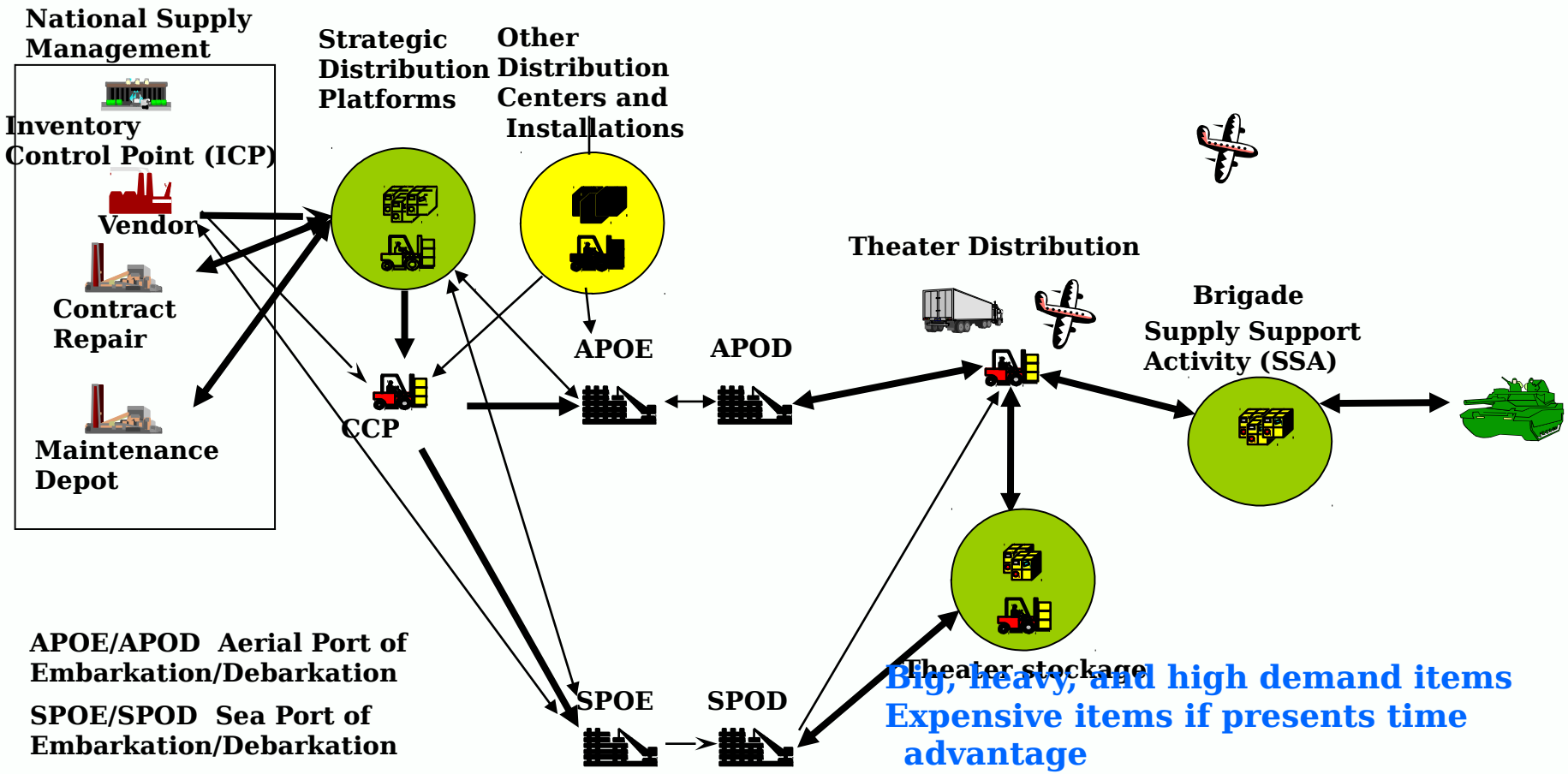


Distribution Based Concept of Support



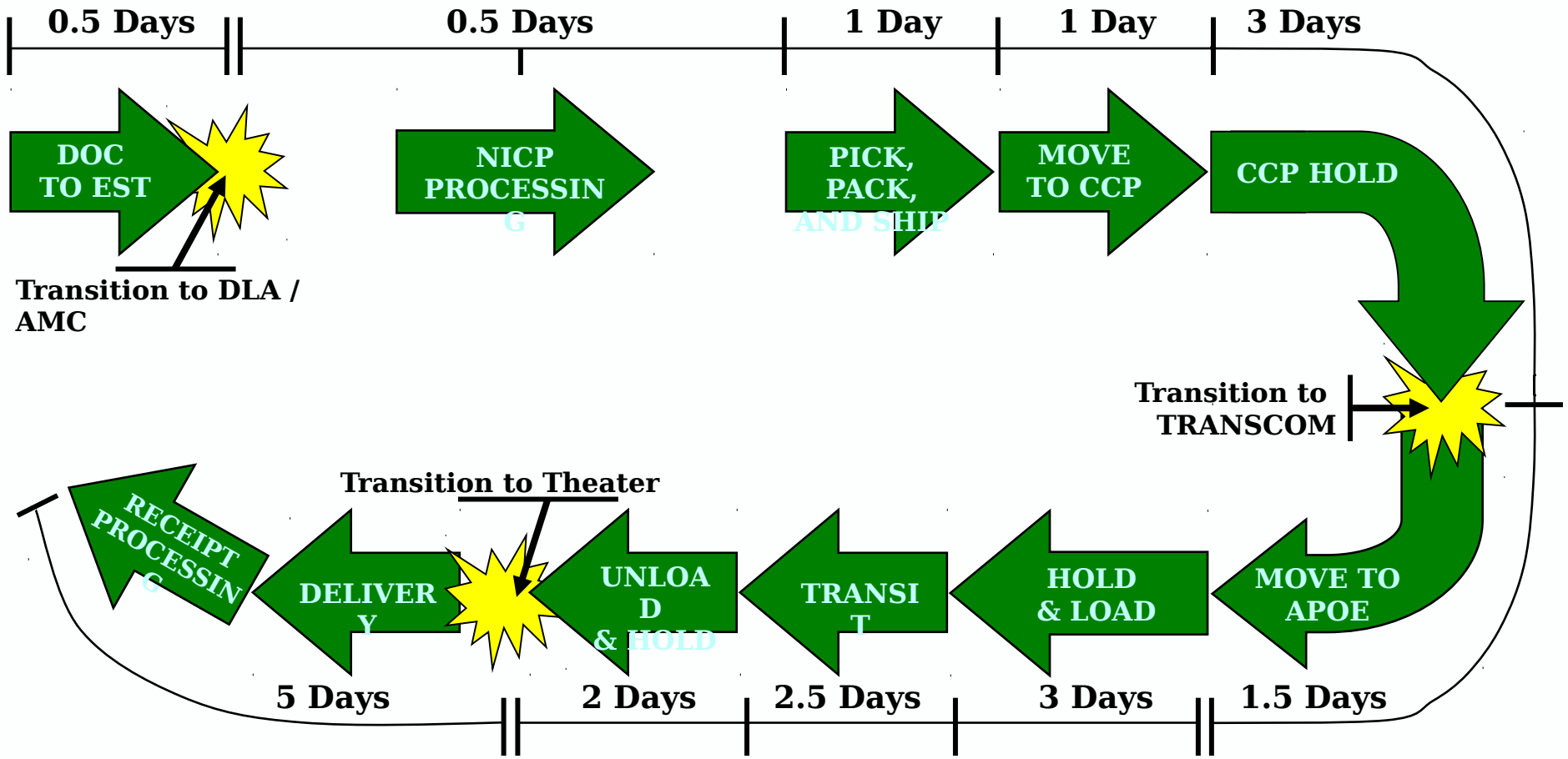
Strategic and Theater DM

Strategic Segment | Theater Segment

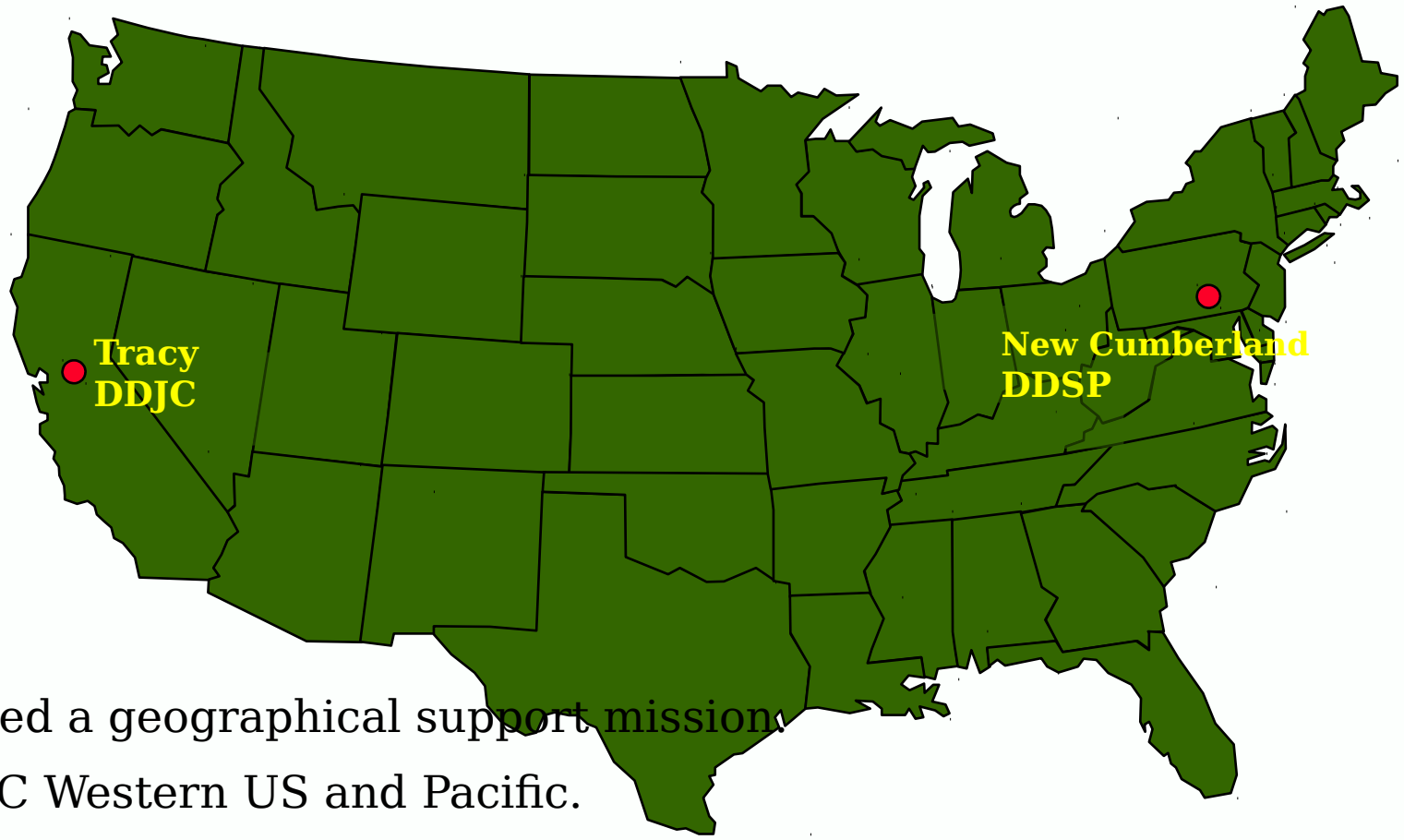


ALOC Distribution Pipeline Segments

20 Days **Army RWT Standard for Iraq (military ALOC)**



Strategic Distribution Platforms



Assigned a geographical support mission.

DDJC Western US and Pacific.

DDSP Eastern US, Europe and Africa.

Consolidation and containerization points.

Maximize “pure pallet” packing to minimize handling in theater.

CONUS Defense Distribution Centers

DOD distribution and storage mission.

Strategically located.

Planning Considerations

- What will be the mission for the 92G in AO
- Do we plan to operate a dining facility or provide a detail of 92Gs to support a contractor dining facility
- How many cooking locations do we plan to inherit outside of the FOB
- Will be utilize our equipment
- Will contractors have refers in place or do we need to contract

Planning Considerations(cont)

- How many Hazmat Containers are available for shipping material
- Do you have approximate date for your equipment to be weighted and ready for deployment
- Has a date been set for validation of equipment with PBO Team
- How many 92Gs to put on Torch and Advance party

Meal, Religious, Kosher for Passover

- Ration Meal for those in the Military Service who celebrate and maintain a Kosher for Passover diet. Shelf-stable (9 months @ 80 degrees F), ready-to-eat meal, in a single flexible meal bag
- All food is certified Kosher for Passover
- Each meal bag consists of an entrée, complementary food items, and accessory items (i.e., salt, sugar, spoon, matches, toilet tissue, moist towelette, and Flameless Ration Heater, as applicable) Additionally, eachcase has a box of Matzo crackers and a feedback survey
- Each meal bag shall provide a minimum of 1200 calories
- The are 12 meals per case. Each case has 4 different menus-4 chicken, 4 beef stew, 2 salmon, 2 gefilte fish

Types of contracts in Theater

- Full Food Service (FFS) provide the full food service operations that would provide food service operations for all patrons at the facility

- Dining Facility Attendance(DFA) are the contracted personnel used to clean and upkeep the operation

- Management & Food Production (M&FP) is a contract that would keep each facility Properly managed and food production IAW all guidance's

UNITIZED GROUP RATIONS

	HC	DOS		Ration	MODs	Pallets	Total (RU)	20ft CT	40ft CT
Semi	500	7		UMM	70	5.83	6	0.29	0.15
Perish	500	7		UMM	70	2.92	3	0.15	0.07

UNITIZED GROUP RATIONS (H&S)

HC	DOS	Ration		MODs	Pallets	Total (RU)	20ft CT	40ft CT
550	7	UMU		154	19.25	20	0.96	0.48
550	7	UMM		77	9.63	10	0.48	0.24

MRE PLANNING FACTOR

HC	DOS	Ration		Cases	Pallets	20ft CT	40ft CT
172	3	MMM		129	3	0.2	0.1
550	3	MMM		413	9	0.5	0.2
172	3	<# OF MEALS		43.0	1		

ORDER SHIPPED FROM PWC

Truck leaves PWC with a PWC Envelope containing 2 sets of documents.

1.All the Original documents on the Order:

1.1 Original Invoice for the Order(3083).

1.2 Original Invoice for the Sub list Order(3061).

1.3 Delivery Sheet of the L M R I.

1.4 Sub list on the Order (Optional).

1.5 Truck Manifest for the Order.

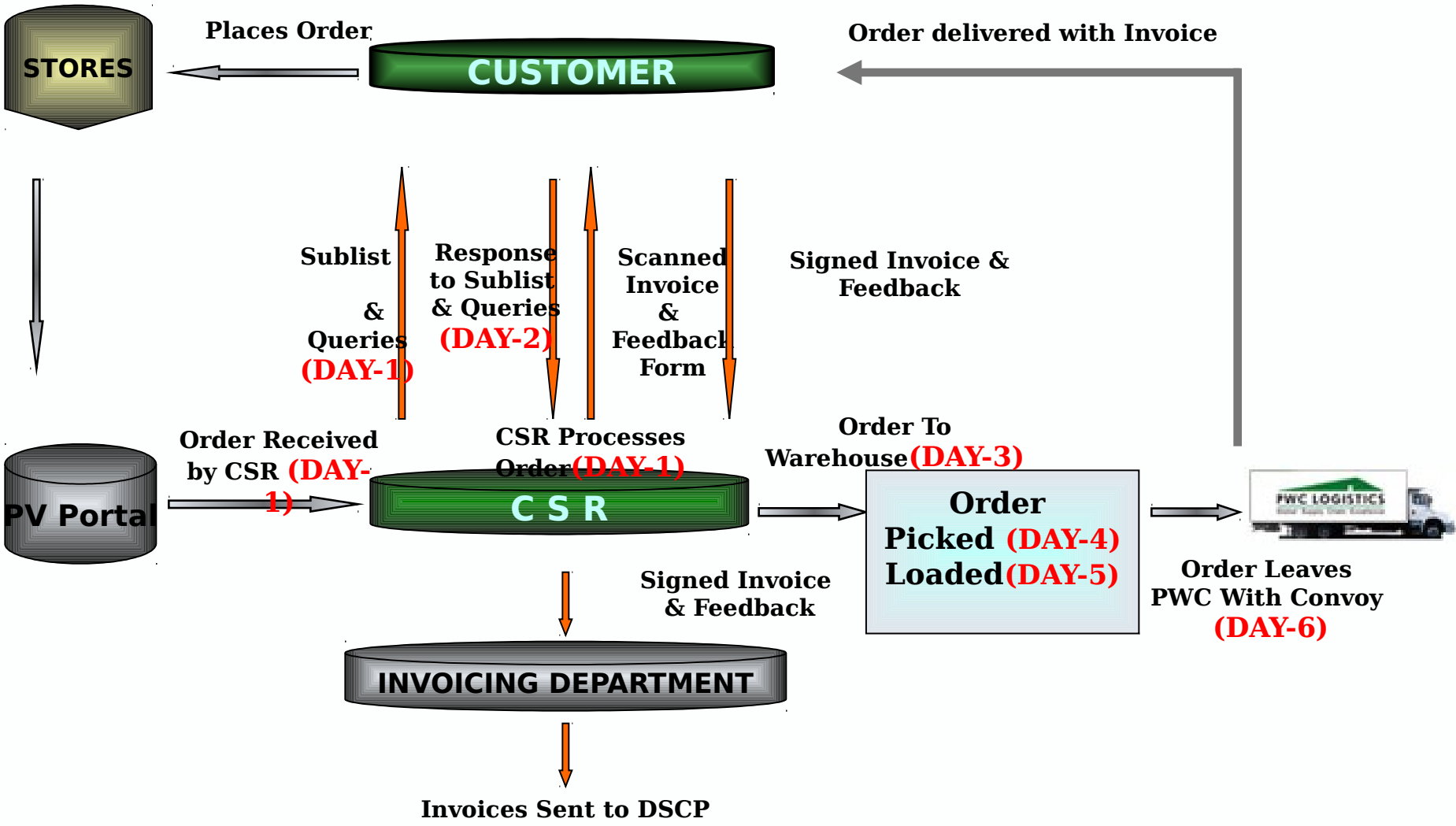
1.6 Customer Feedback Form.

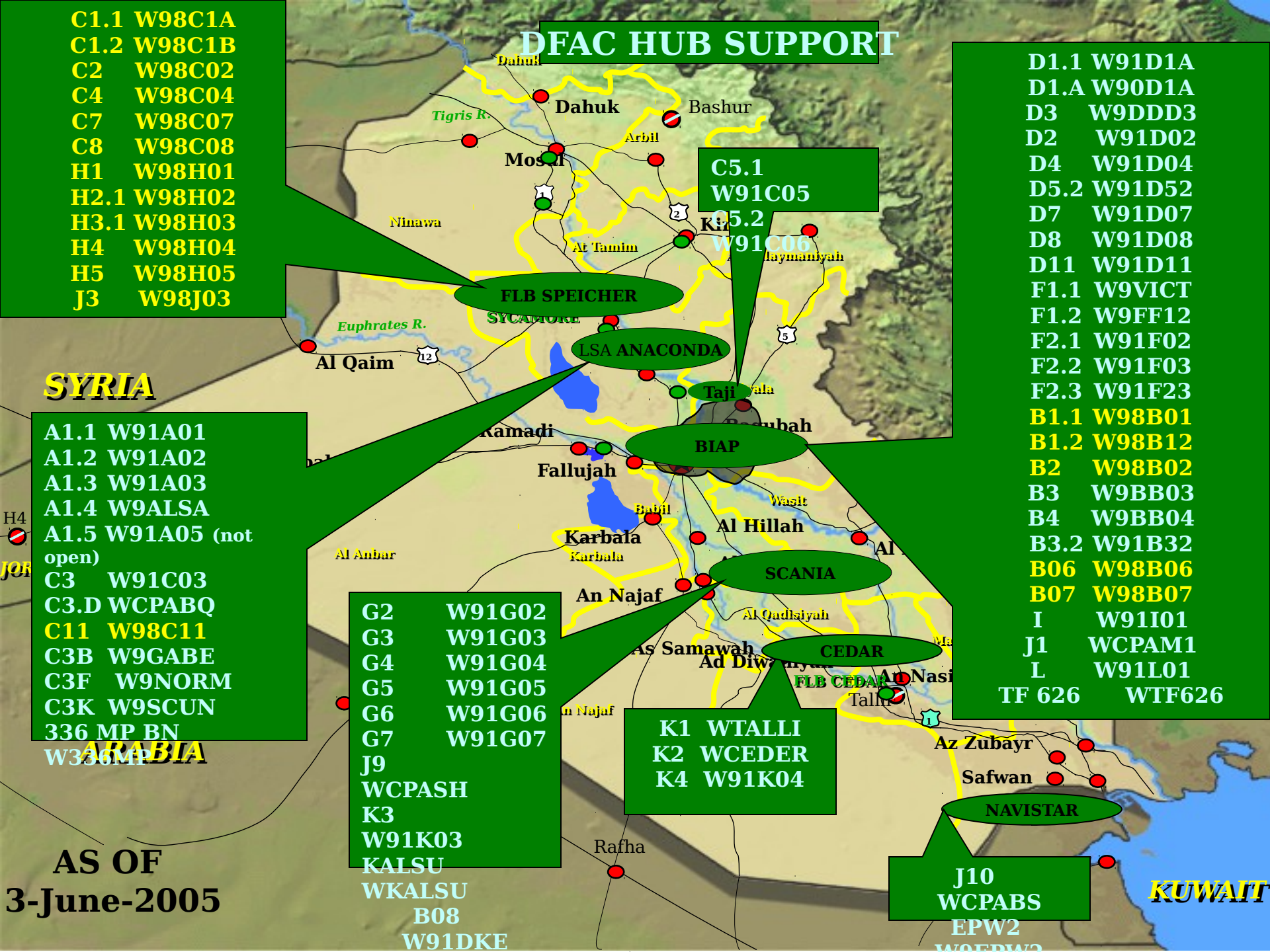
2. Xerox Copy of all the above documents except the Customer Feedback form.

For Every Order:
Kuwait CSR's sends scanned Copy of all the above documents to the DFAC's.

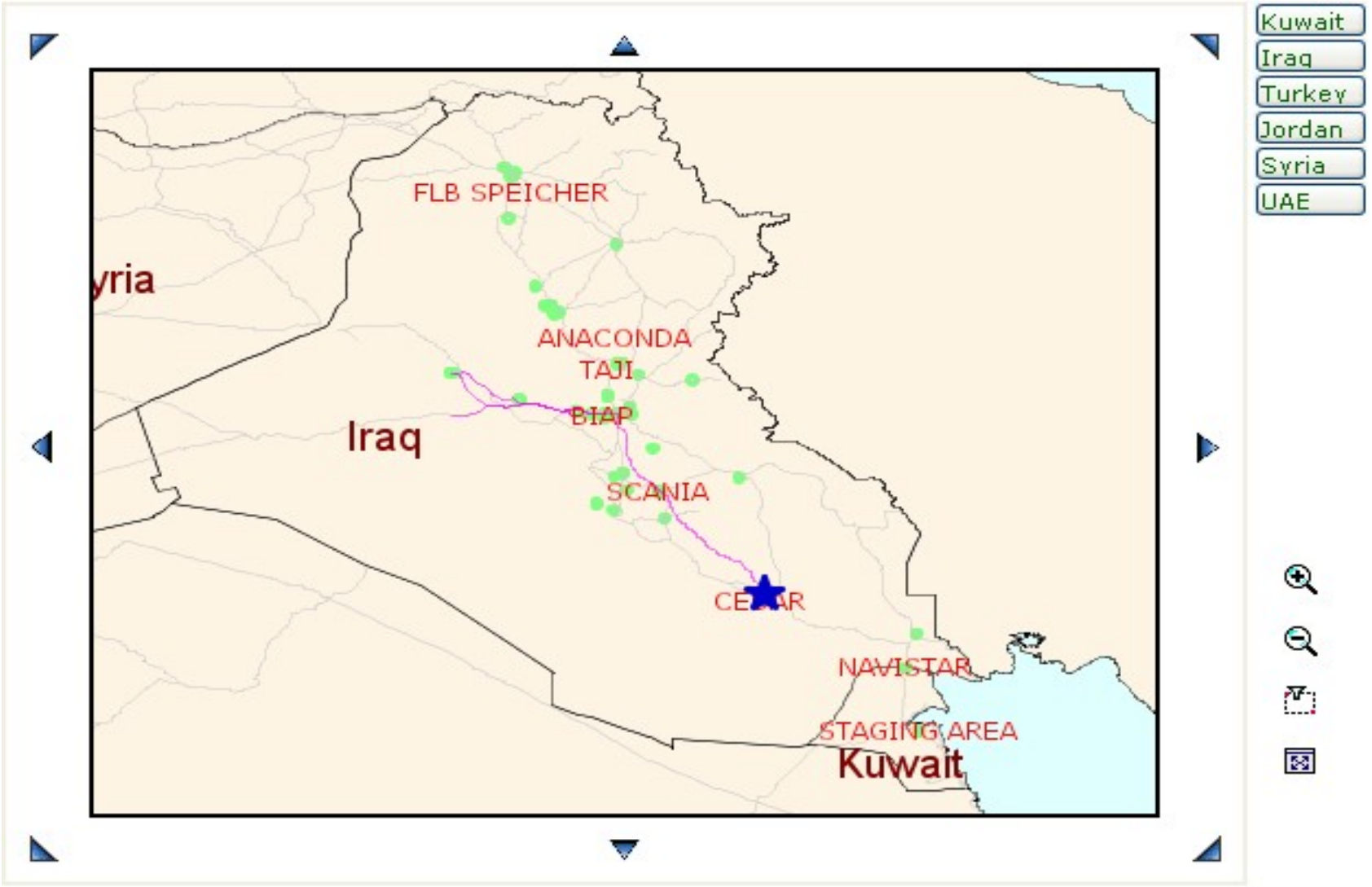
Iraq CSR's sends the scanned Copy of all the above documents,
Convoy tracker for the Order & the Excel Based Customer Feedback Form.

GARRISON DINING FACILITY ORDERING CYCLE




DFAC HUB SUPPORT
C1.1 W98C1A
C1.2 W98C1B
C2 W98C02
C4 W98C04
C7 W98C07
C8 W98C08
H1 W98H01
H2.1 W98H02
H3.1 W98H03
H4 W98H04
H5 W98H05
J3 W98J03
C5.1
W91C05
C5.2
W91C06
D1.1 W91D1A
D1.A W90D1A
D3 W9DDD3
D2 W91D02
D4 W91D04
D5.2 W91D52
D7 W91D07
D8 W91D08
D11 W91D11
F1.1 W9VICT
F1.2 W9FF12
F2.1 W91F02
F2.2 W91F03
F2.3 W91F23
B1.1 W98B01
B1.2 W98B12
B2 W98B02
B3 W9BB03
B4 W9BB04
B3.2 W91B32
B06 W98B06
B07 W98B07
I W91I01
J1 WCPAM1
L W91L01
TF 626 WTF626
SYRIA
A1.1 W91A01
A1.2 W91A02
A1.3 W91A03
A1.4 W9ALSA
A1.5 W91A05 (not open)
C3 W91C03
C3.D WCPABQ
C11 W98C11
C3B W9GABE
C3F W9NORM
C3K W9SCUN
336 MP BN
G2 W91G02
G3 W91G03
G4 W91G04
G5 W91G05
G6 W91G06
G7 W91G07
J9
WCPASH
K3
W91K03
KALSU
WKALSU
B08
W91DKE
K1 WTALLI
K2 WCEDER
K4 W91K04
J10
WCPABS
EPW2
FLB SPEICHER
SYCAMORE
LSA ANACONDA
BIAP
SCANIA
CEDAR
FLB CEDAR
NAVISTAR
Dahuk
Bashur
Tigris R.
Arbil
Mosul
Ninawa
At Tamim
Euphrates R.
Al Qaim
Ramadi
Fallujah
Karbala
Al Hillah
Wasit
Babil
Al Anbar
An Najaf
Al Qadisiyah
As Samawah
Rafha
Az Zubayr
Safwan
KUWAIT
AS OF
3-June-2005

MICROTRANSPORT GPS



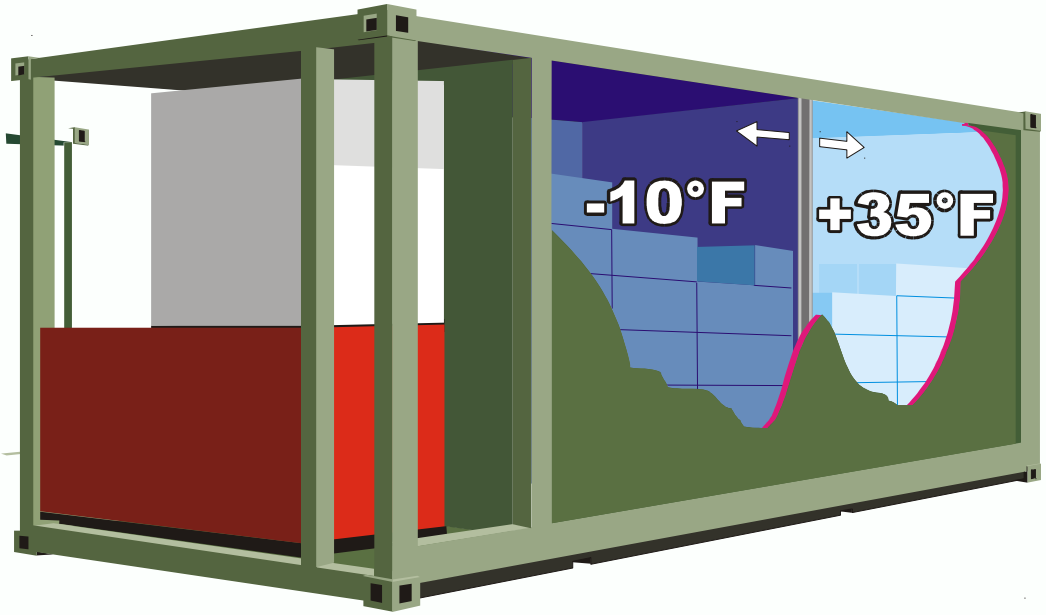
Mobile Kitchen Trailer (MKT)

Contanerized Kitchen(CK)

Containerized Kitchen

- **Mission:** Provide a mobile, modern, efficient kitchen serving 800 meals up to 3x per day.
- **Description:**
- 3:1 ISO 8x8x20 container with seven Modern Burner Units, two commercial refrigerators, an environmental control unit, a 10KW generator and other required field feeding equipment.
- Towed by 5T FMTV; PLS Compatible
- Total cost is approximately $150,000.

Multi-Temp, Refrigerated Container System (MTRCS)



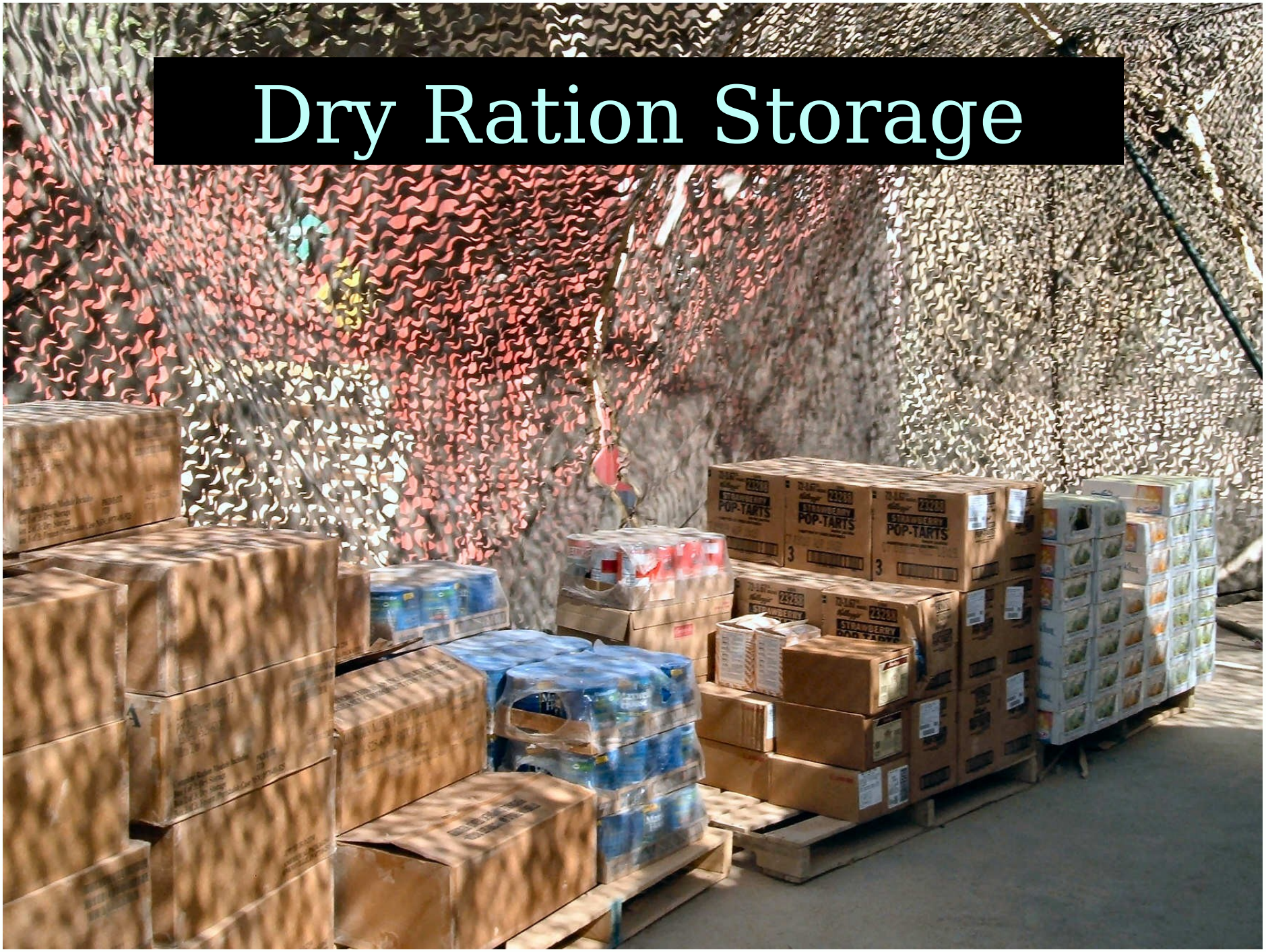
- Distribute and Store Mixed Rations: fresh, frozen chilled
- Dimensions are 8’ x 8’ x 20’
- Hold 14 standard pallets
- Designed to sustain 800 Soldiers for two days
- Currently in test phase of development

Assault Kitchen (AK)

Sanitation Center

LG
KCLFF

Dry Ration Storage



Beverage Storage

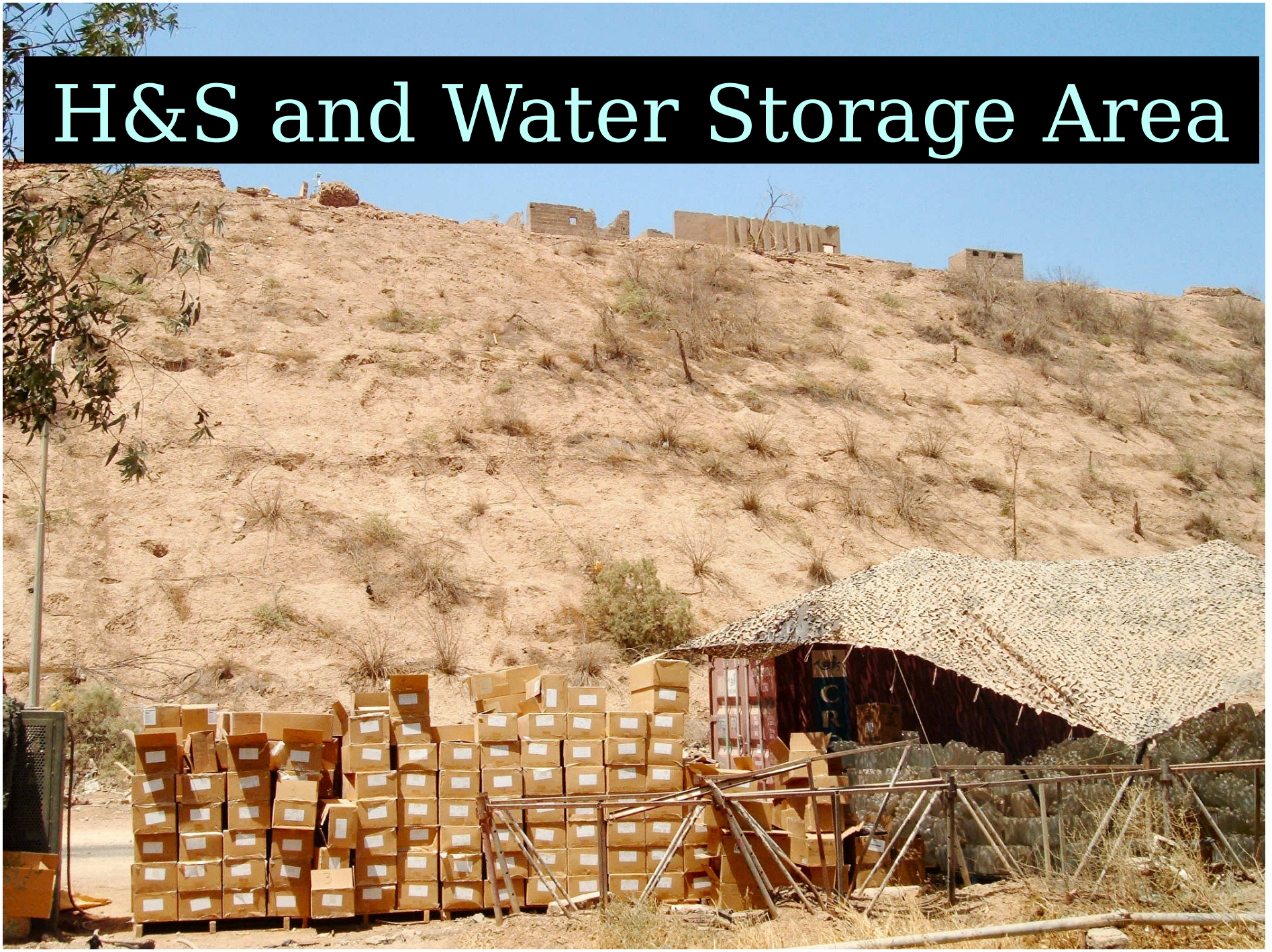
Operational Ration Storage

Ration Delivery Truck

Ration Downloading Detail

Ration Download Detail

H&S and Water Storage Area



Water Storage Blivet

Water Buffalo

MRE & Water Storage Area

Ice Download

Additional 20’ Reefer Download

Sanitation Area

Serving Line

Bottle Water Policy

Commanders of units deploying for contingency operational missions with Operations Order (OPORDs) can obtain individual bottled water using subsistence funds (MPA) from a supporting Troop Issue Subsistence Activity (TISA) or Food Program Manager (FPM) as appropriate. Deploying units will be issued three days worth of individual bottled water as part of their OPORD Class I requirements for enroute consumption only. No individual bottled water will be obtained to support preparing for or awaiting deployment.

WATER PLANNING FACTOR

Water Planning Factor (1l)

HC	DOS	BTLS		Cases	Pallets	20ft CT	40ft CT
550	3	11		1,513	25	2.5	1.3
550	3	11		1,513	25	2.5	1.3

Planning Factor Drinking Water

The recommended planning factor is based on a force mixture of 15 percent light work, 65 percent medium work, and 20 percent heavy work. Due to the subjective nature of this assumption, and the fact that minor water losses have not been considered, all figures are rounded to the next higher number of quarts

Water Requirements

- Total Drinking Requirements
  - Light Work 2 + 6 = 8 qts/soldier/day
  - Moderate Work 2 + 9 = 11 qts/soldier/day
  - Heavy Work (sustainable) 2 + 12 = 14 qts/soldier/day
- Heavy Work (maximum) 2 + 18 = 20 qts/soldier/day

Water Drinking Consumption

Water Planning Factors for Individual Consumption (Drinking)
(Gallons per person per day)

	Conventional Battlefield			Integrated Battlefield		
	Min	Max	Recommended	Min	Max	Recommended
	Planning Factor			Planning Factor		
Hot	2.0	3.5	3.0	3.5	3.5	3.5
Temperate	1.0	2.0	1.5	2.25	2.25	2.25
Cold	1.5	2.5	2.0	2.0	2.0	2.0

References

Websites

- Defense Supply Center Philadelphia
  - http://www.dscp.dla.mil
- US Army Community of Excellence – Subsistence
  - http://www.quartermaster.army.mil/aces
- US Army Veterinary Command
  - http://vets.amedd.army.mil/vetcom
- US Army Soldier System Center – Natick
  - http://www.natick.army.mil/